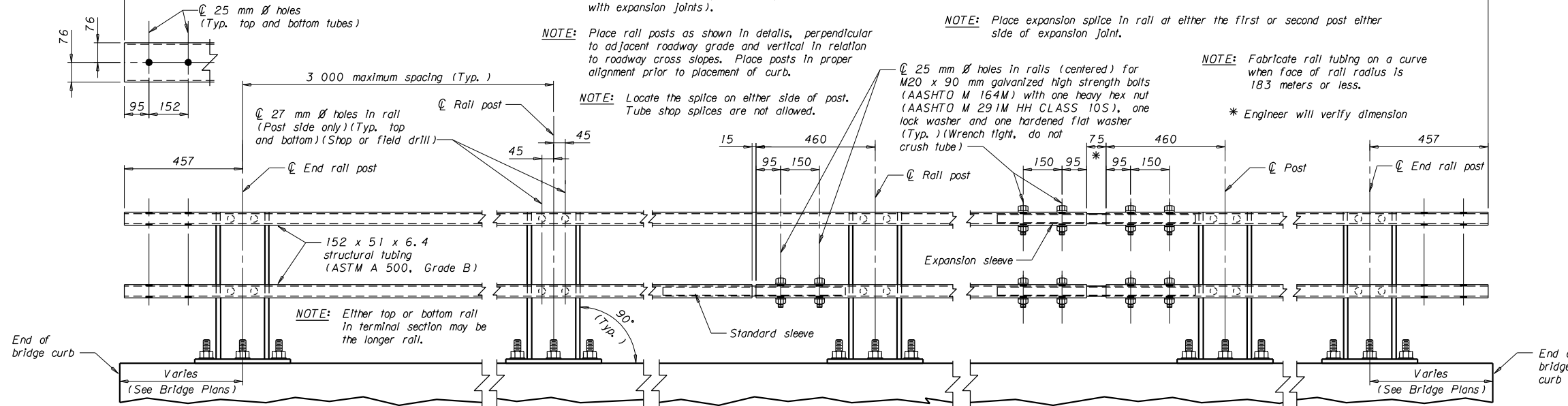


Box Beam - Bridge
Approach Section Type 1
See Road Plans and
Det. Dwg. No. 606-53

Bridge Rail ~ W 740

Box Beam - Bridge
Approach Section Type 1
See Road Plans and
Det. Dwg. No. 606-53

STATE	PROJECT NUMBER	SHEET NO.
MONTANA		



NOTES

GALVANIZING: Galvanize all bolts, nuts, washers and pipe sleeves in accordance with AASHTO M 232M.

REFLECTORS: Place a white reflector on top of the top tube rail at 9.15 meter spacing between ends of rail. Mount reflectors with reflectorized face toward oncoming traffic. See Dtl. Dwg. No. 606-60 for reflector detail. Mount the reflector on the tube rail with an approved adhesive. Include the cost of reflector in the unit price bid for Bridge Rail ~ W740.

PAYMENT: Payment for Bridge Rail ~ W740 per linear meter includes compensation for the cost of Class SD concrete in the curb and for all resources necessary to complete the work. See the General Layout for the number of linear meters for payment of Bridge Rail ~ W740. Use rail post plates and base plates conforming to AASHTO M 270M Grade 250T3. Use AASHTO M 270M Grade 250 for all other plates.

ERECTION: Place rail posts as shown in details, perpendicular to adjacent roadway grade and vertical in relation to roadway cross slopes. Place posts in proper alignment prior to placement of curb.

PAINTING: Paint all posts, structural tubing and plates (except as noted) in accordance with the Standard Specifications. Galvanizing the posts, structural tubing and plates in accordance with AASHTO M 111M will be allowed.

EXCEPTIONS: Use details shown on this drawing only as they apply to the project. Anchorage details may vary. Refer to other drawings for variations in these details.

DIMENSIONS: All dimensions are in millimeters except as noted.

FABRICATION: For the purposes of fabrication, this rail system is considered an ancillary item. The requirements of subsection 1.3.6 of AASHTO/AWS D1.5 apply.

ELEVATION AT BOX BEAM GUARDRAIL CONNECTION

NOTE: Do not provide a tube splice in first panel unless it crosses an expansion splice.

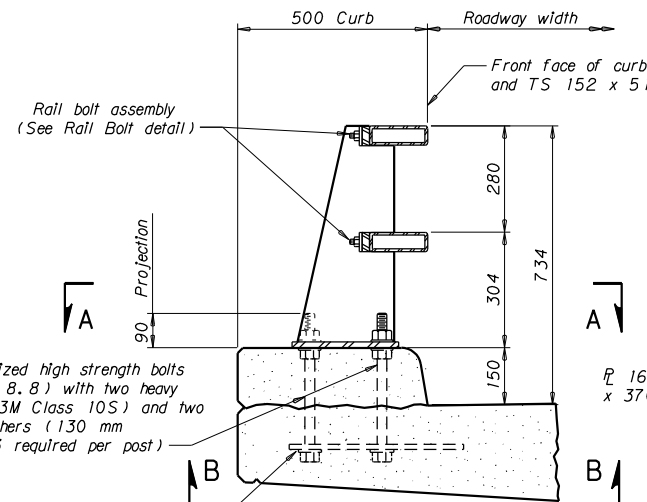
STANDARD SPLICE

(Top or bottom rail)

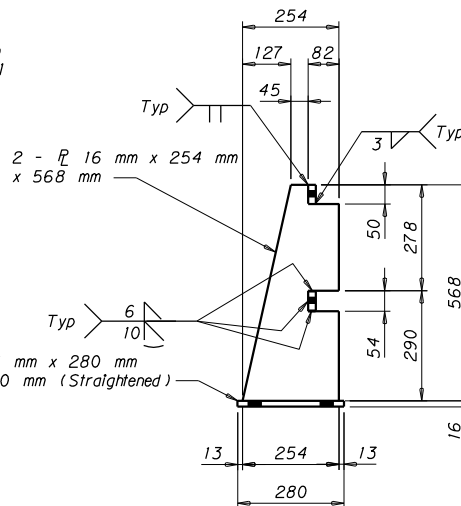
EXPANSION SPLICE

(Top and bottom rail)

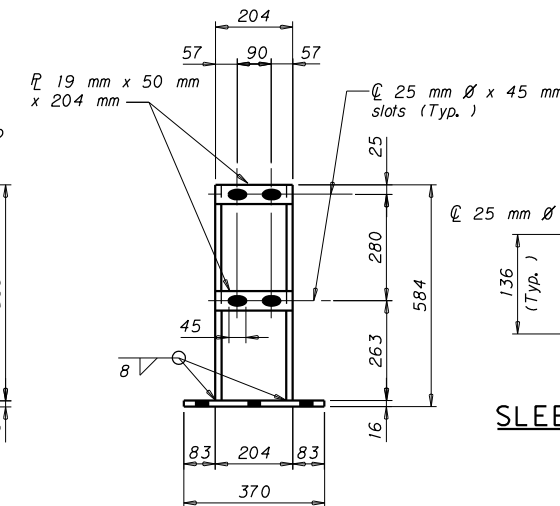
INSIDE ELEVATION OF RAIL



POST ASSEMBLY DETAIL

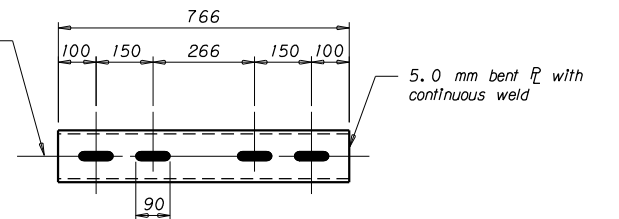


POST DETAILS

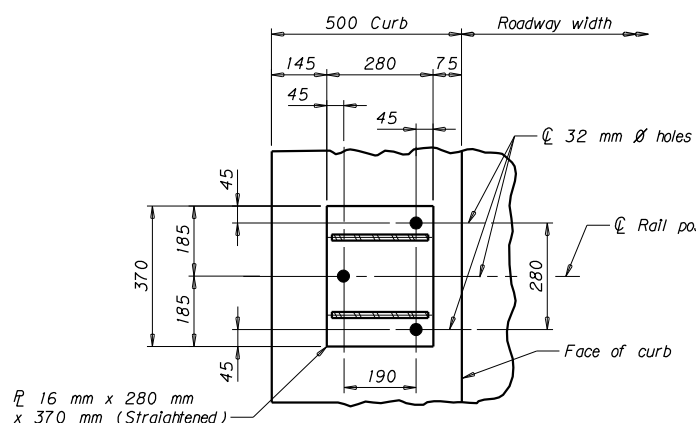
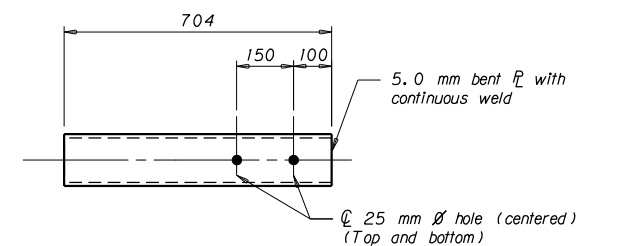


SLEEVE FABRICATION OPTIONS

EXPANSION SLEEVE DETAIL

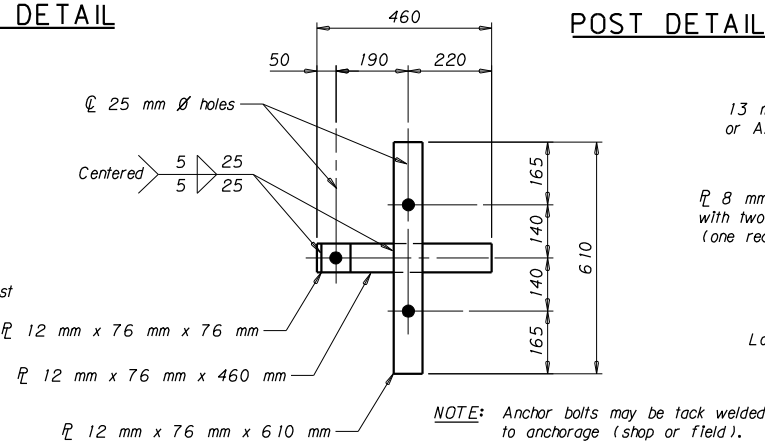


STANDARD SLEEVE DETAIL



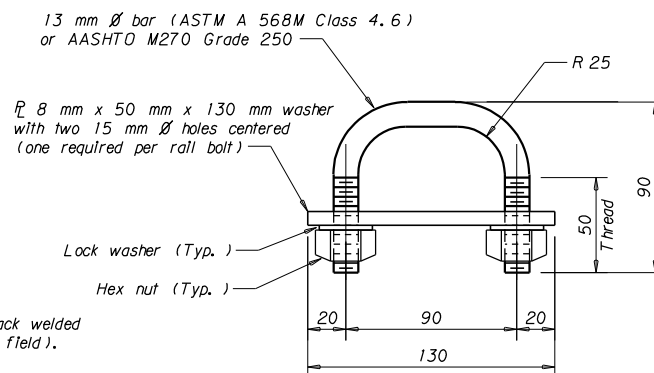
SECTION A-A

(Anchor bolts not shown)



VIEW B-B

(Do not galvanize)
(Anchor bolts not shown)



RAIL BOLT DETAIL

DRAWN	9-10-03	L. M. S.
CHECKED	10-3-03	M. L. R.
APPROVED	10-25-04	K. M. B.
REVISED	8-25-05	D. F. J.
REVISED	4-27-06	D. F. J.
REVISED	3-14-08	T. J. B.

FILENAME: MW740308.STD DRAWING NO. MSBR-W740